

REMARKS

I. Summary of "Amendments to the Specification"

On page 2, paragraph 1 of the Office Action, the specification was objected to because of references to "gig". This was an obvious typographical error and has been corrected by replacing "gig" with "jig". Also, on pages 3 and 4 of the specification references to claims have been removed, as required. All these amendments to the specification are seen in the attached Replacement Sheets 3 and 4.

II. Summary of Claim Amendments

Claims 16 – 30 are presently in this application, claims 1 – 14 having been previously cancelled.

Currently, claim 15 is cancelled without prejudice,

Claims 16 and 17 are amended, each to include the limitations of claim 15.

Claims 18 and 20 – 22 are amended to remove multiple dependency.

New claim 27 is added, which is dependent on claim 17, but is otherwise similar to claim 18.

Claim 19 remains unamended.

New claims 28 – 30 correspond to claims 20 – 22, but have dependence on claim 17 instead of 16.

Claims 23 – 26 are amended to remove reference numbers.

On page 2 of the Office Action, paragraphs 2-3, claims 18 and 19 were rejected under 35 U.S.C. §112. This rejection has been overcome in claim 18 by replacement of the term "gig" with the word "jig" which is obviously what was intended based upon the remainder of the specification. Claim 19 remains dependent on claim 18.

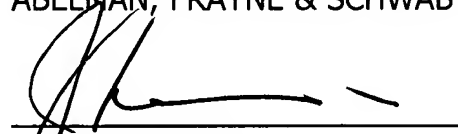
On Page 4 of the Office Action, paragraph 6 indicates that claim 16, 17 and 20-22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. This has been done in the Amendment herein with the limitations of claim 15 incorporated into all of claims 16, 17 and 20-22.

It is noted that claims 23-26 were considered allowable and these claims remain unamended except for minor amendment to eliminate references in these claims to reference numerals as being unnecessary.

In view of the above amendments and comments it is believed that all requirements for allowance of all of the pending claims have been met. Accordingly, reconsideration and favorable action is respectfully requested.

Respectfully submitted,

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The object is achieved with a method of as defined in the independent claim 1, by moistening fibre thread with a binding agent, to reel the moistened fibre thread into a bundle with a closed, approximately circular shape, comprising a layer of longitudinal, parallel fibres of the desired thickness, whereby all the fibres in the layer get approximately equal axial tightening, and to envelope an outer layer of fibre threads and/or foil, or other suitable material, around the layer of longitudinal fibres, whereupon the fabricated blank is given a final shape in a second forming process.

In aAlternative embodiments of the method the are characterised by the independent method claims 2 - 9. The enveloping can comprise winding, by a method in itself known, an outer layer of fibres threads, and/or foil/band, in a helically form around the layer of longitudinal fibres, or the enveloping can comprise knitting, by a method in itself known, an outer layer of fibre threads, and/or foil/bank, around the layer of longitudinal fibres. The moistened fibre thread can be wound into a bundle by reeling of the fibre thread onto a rotational plate with a number of holding means for fibre thread, to the approximately circular form. The final shape of the reeled bundle is preferably obtained by tightening in a gig to the desired form, and by the subsequent heating to the curing temperature for the binding agent, whereupon the finally formed blank can be divided. It is preferred that the used fibre thread is selected from a group comprising glass, basalt, carbon, thermoplastic or the like, and cured plastic is utilised as the binding agent.



The invention also relates to a device for carrying out the method according to the invention, and is characterised by the independent claim 10, by a device for reeling and winding of fibre threads for use in reinforcing rods of a composite material, with a rotational plate comprising a number of holding means for

Fibre thread, where the holding means are arranged at a mutual distance apart adjacent to the outer edge of the plate, for reeling of an approximately circular blank with longitudinal fibre threads.

Alternate embodiments of the device are characterised by ~~the claims 11-13~~, in that the holding means are wheels encompassing suitable grooves for the fibre threads, and that the device comprises a winding appliance arranged for winding fibre thread, and/or foil, or other material, in a helically form around the longitudinal fibre threads, or that the device comprises at least one knitting appliance arranged to knit fibre thread and/or foil, or other suitable material, around the longitudinal fibre threads. The device can also comprise a tightening system arranged to tighten and to regulate the supply of fibre thread to the holding means of the rotational plate.

The invention shall now be described in more detail with the help of the enclosed figures, in which:

Figure 1 shows an embodiment of a device, according to the invention, for reeling of fibre threads.

Figure 2 shows a winding process of helically coiling of an outer layer of fibre threads and/or foil.

The principle of the present invention is that moistened fibres are arranged in a circular bundle. These are kept in a bundle form with the help of a sheathing of wound or knitted material, fibres, foil, band or the like, suitable for keeping together the fibres in the circular bundle. The material being wound round can also be selected with regard to the surface of the final product, as a surface well suited to achieving a good grip between the reinforcing (the loop) and the concrete. The bundle is preferably circular to achieve an even tightening in all fibres after the bundle has got its final shape and is to be cured.